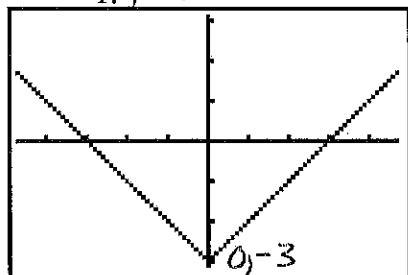


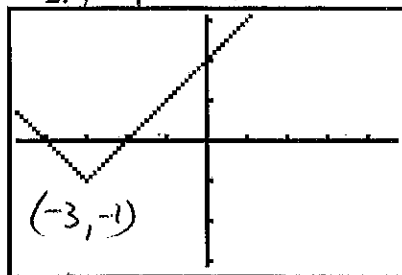
Name Key  $y = a|x-h|+k$  Date \_\_\_\_\_

Give the equation of each absolute value graph below. Use the calculator to check your prediction. Use the window  $[-4.7, 4.7]$  by  $[-3.1, 3.1]$

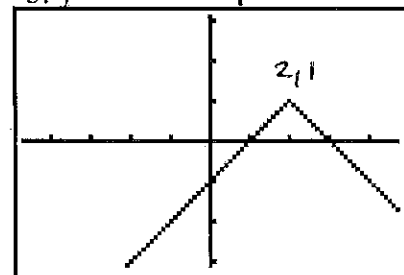
1.  $y = |x| - 3$



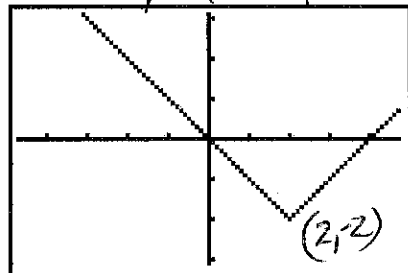
2.  $y = |x+3| - 1$



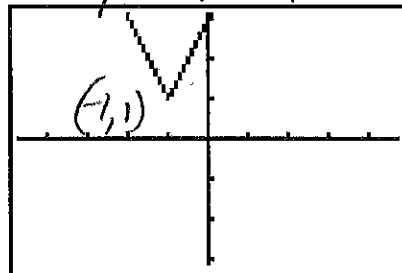
3.  $y = -|x-2| + 1$



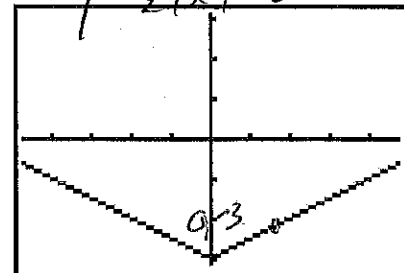
4.  $y = |x-2| - 2$



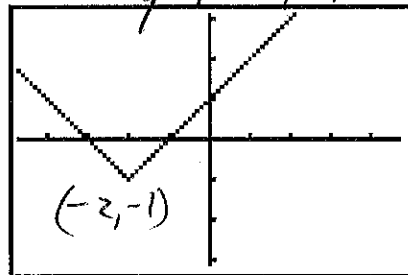
5.  $y = 2|x+1| + 1$



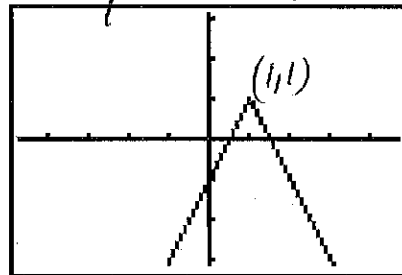
6.  $y = \frac{1}{2}|x| - 3$



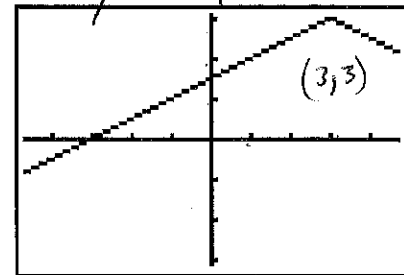
7.  $y = |x+2| - 1$



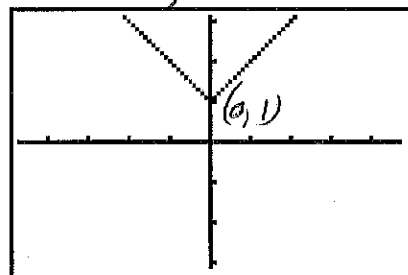
8.  $y = -2|x-1| + 1$



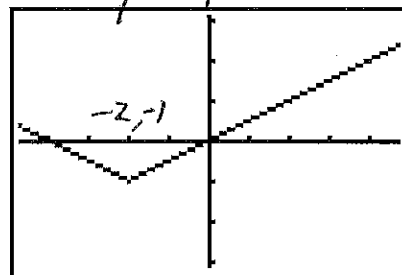
9.  $y = -\frac{1}{2}|x-3| + 3$



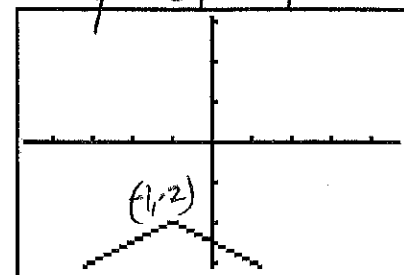
10.  $y = |x| + 1$



11.  $y = \frac{1}{2}|x+2| - 1$



12.  $y = -\frac{1}{2}|x+1| - 2$



Use the back to sketch the following graphs:

13.  $y = |x+3|$

14.  $y = |x-2|$

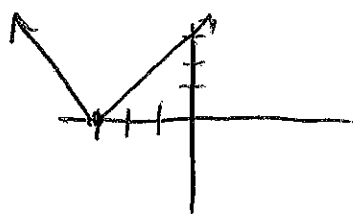
15.  $y = |2x+1| - 3$

16.  $y = -2|x| + 3$

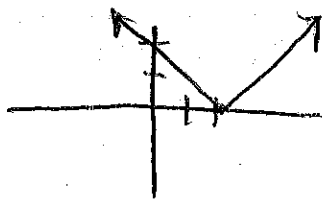
17.  $y = |x| - 2$

18.  $y = |x+5| + 1$

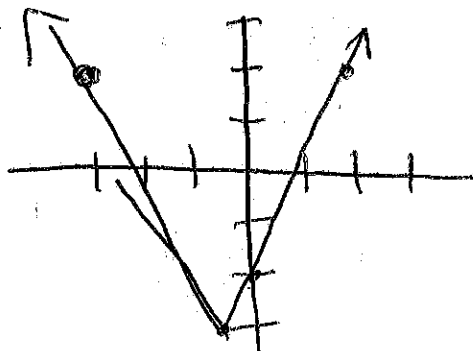
13.  $y = |x+3|$   
 $V(-3, 0)$



14.  $y = |x-2|$   
 $V(2, 0)$

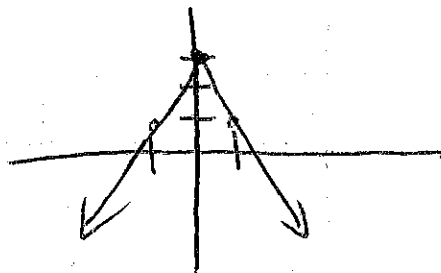


15.  $y = |2x+1| - 3$   
 $V(-\frac{1}{2}, -3)$

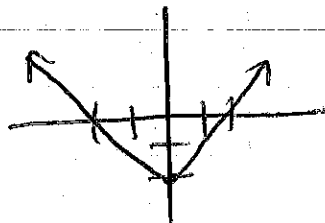


$x$	$y$
0	-2
2	2
-3	2

16.  $y = -2|x| + 3$   
 $V(0, 3)$



17.  $y = |x| - 2$   
 $V(0, -2)$



18.  $y = |x+5| + 1$   
 $V(-5, 1)$

